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PUBLICATION



- Hunting Regulations
- Police Subsidy
- New Resort Area
- School Broadcasts
- · Ministers to ment

SEPTEMBER, 1966

Margin of Safety, Efficiency Kept High As Provinicial Testers Check Tar Sands Units

ONE OF THE MAJOR safety inspection procepts of the Boilers Branch, Alberta Department of Labour, is now nearing completion with the "on site" fabrication and erection at Fort McMurray of the largest 'delayed coking' weight in the world

Six steel pressure vessels, each weighing 160 tms, 94 feet high, with an inside diameter of 26 feet and a capacity of 1,000 tons of coke, will after one more critical test by Boilers Branch inspectors before going into operation late in 1967, to produce approximately 3,000 tons of coke a day as a source of fuel for the power house at the oil sands plant. The forthcoming final safety test for the "coke drums" is a hydrostatic test in which each is filled with water and raised to a pressure 1½ times the design working pressure By means of a pressure pump the drums which have a wall thickness of 34" at top and 1-1/8" at base, will be raised to a pressure of 110 lbs. per square inch at base, to test their strength for the capacity loads of 1,000 tons of coke each will be expected to carry.

Already the whole 'coking unit' has come through a battery of safety inspection tests prior to the final 'water' test. Even before construction of the coke drums was begun on site in May 1965, detailed drawings were submitted to the Chief Inspector of the boiler branch and were Equired to conform to regulations of the nationally accepted code for construction of unfired pressure vessels. Once design approval was gained, the steel sections were formed and numbered in a Calgary plant and then transported by rail to the plant workshops at Fort McMurray for fabrication into the six drums.

Rigid control of the construction of the drums was maintained by field inspectors who radiographed every welded seam in each of the drums. In this method, every seam bears a lead number and these must appear in sequence on stay films which are also numbered in sequence for inspection purposes. The soundness of all joints was further tested by the use of dye-penetants. In this test, the welded seams are washed with a special dive which pentrates the surface and detects cracks by tracing their outlines in easily observed white.



A portion of the \$230,000,000 Athabasca oil sands project with the six coke drums (largest unfired pressure vessels in the world) standing erect (right background). The gigantic drums, each weighing 160 tons, were moved horizontally by rail from the workshop where they were built (far left background), lifted by crane into position and lowered into concrete silos where they were individually stress-relieved by inspectors of Alberta's Boiler Branch.

Since the safety of the coke drums depends on the quality of the welding involved, Boilers Branch inspectors were also responsible for the testing of more than 100 welders needed to work on the job site. Welders who were tested by government inspectors in Montreal, Calgary, Edmonton and the plant site, underwent various practical tests. They were tested on their ability to weld similar and dissimilar materials together such as low alloy and stainless steel, and a variety of welding techniques to be used at the plant. Those accepted are tested every 18 months and retested when required to work on new materials. In this way, inspectors help to maintain quality control on the job.

Once the coke drums were built and erected, the important stress-relieving procedure commenced under the surveillance of Boilers Branch inspectors. The first drum was completed last fall and the other five this spring. During this procedure, the drums were subjected to temperatures of 1100°F. for 90 minutes.

Since the coke drums will be in a critical type of service they will be re-inspected at regular intervals during their lifetime. Some five of the Boilers Branch's 32 inspectors have carried out tours of duty at the tar sands plant and will continue the regular periodic inspections necessary to maintain Alberta's outstanding record of industrial safety.

Proper Utilization

FEDERAL ASSISTANCE under the Agricultural Rehabilitation and Development Act has been approved for the Watershed Research Study presently being conducted by the Water Resources Division of the Alberta Department

The general objective of the program is to record the effect of agricultural development on the runoff and erosion characteristics of land presently under forest cover and to develop recommended patterns of land development and water control. The project will extend over a ten year period to allow time to observe the effects of a variety of annual climatic conditions and during which normal agricultural development will take place in an area which is initially

The first watershed basin to be used for the study is located in the Valleyview area, in the forested section of the province. It has a mixed cover of heavy timber, brushland and some muskeg. This is the first of an expected three or four research basins to be established, each with a different type of environment. These basins will be, in effect, large scale laboratories in which the benefits of various types of land management may be observed and compared from a soil-and-water-conservation point of view. The program will not affect the research area physically. It will be allowed to develop naturally as it is opened to homesteading and agricultural development takes place. Throughout this change, readings and observations will be taken to determine the effects of development on hydrological characteristics.

Watershed Basin Studies to Assist New Organization of Land Resources

Main access roads have been completed into the area, and instrumentation has started. When completed, the hydrometeorological instrumentation of the basin will include at least one Class A meteorological station, twenty or more precipitation gauges, several temperature gauges, ten to fifteen hydrometric stations, a network of piezometer nests to record groundwater fluctuations and a system of snow courses. The main hydrometric station was established last fall. Additional stations and meteorological equipment are presently being installed. Supply and maintenance of the meteorological equipment is the responsibility of the Federal Department of Transport, while readings and observations will be taken by the Alberta Water Resources Division. Installation, maintenance and observations at the hydrometric stations are being done in co-operation with the Federal Water Resources Branch of the Department of Mines and Technical Surveys. Groundwater instrumentation is being handled by the Research Council of Alberta.

Special aerial photography of the basin and the ground survey necessary for subsequent mapping to a 20 foot contour interval is accompanying the instrumentation. A detailed study and mapping of the type, moisture, infiltration and capacity of soils; vegetation cover and slopes will also be undertaken.

Preparation of the Valleyview research basin is expected to be completed in 1967, with the estimated completion date for the overall project

Designed to Assign Agricultural Service

T O SIMPLIFY internal operations and to crease the efficiency of its services to residents of the province, the Alberta Den ment of Agriculture has re-organized its form 15 branches into seven basic divisions: Plant dustry, Animal Industry, Program Developes Extension and Colleges, Water Resources, be cultural Economics and Veterinary Services

Each division is made up of branches sections with a common denominator of esta prise. The five sections of the Plant Indus-Division all deal with soil and crops and formerly grouped under the Field Crops Branch The Animal Industry Division brings togeth under one director, the Livestock Brunch Poultry Branch and the Dairy Branch, while Program Development Division includes such vices as the Marketing Council, A.R.D.A., as Land Utilization. The Extension and College Division is concerned with agricultural education within the province; the new Water Resource Division is an amalgamation of the Water la sources Branch and the former Colonization Branch; the Economics Branch and administration of the Farm Purchase Act make up the Agrical tural Economics Division; and, in the Vetering Services Division are the Veterinary Branch at the Fur Farms Branch.

Under the new organization, only seven a sional heads will report to the Deputy Ministration of Agriculture, and these seven will make up n Executive Committee for policy and programing purposes.

Calendars Listing Production Schedules Sent Out To Ensure Greatest Use of Broadcast Education

THIS YEAR, for the first time, separate calendars which list school radio programs and school television programs will be sent out to principals, teachers and audio-visual co-ordinators in Alberta by the Audio-Visual Branch of the Department of Education. Some 36,000 calendars will be mailed in September, an indication of the popularity of radio and television school programs in the province. Television programs, especially, have been gaining wide acceptance as teaching aids and during the 1965-66 season, 2,053 school rooms in Alberta reported using the service compared with 519 school rooms in 1963-64.

For the 1966-67 season a full schedule of radio and television programs are planned from October to May covering many phases of the Alberta curriculum from elementary mathematics to a chemistry series for senior high school students. In addition, there will be many programs with a Centennial flavour.

A new radio series, "Trailblazers of the Rockies", originated by Alberta's Audio-Visual Branch, will dramatize events from the lives of Tom Wilson who found Lake Louise, Mary Shaeffer who discovered Maligne Lake, and Jim Simpson who guided early surveys for the Banff-Jasper Highway.

A popular series for Grades I to III, "Magic Door", celebrating its 20th anniversary, will re-broadcast well-loved stories of those 20 years.

Locally made products of Alberta's Indians will be the theme of another new series "Proud Pathfinders" for elementary pupils, and "Pioneer Communities" will feature recorded visits and interviews with Alberta pioneers in two other new programs.

Alberta's audio-visual branch will also contribute six programs to western regional school broadcasts on modern science topics for Grades VI to IX on the following themes: food from waste; water resources; energy in the future; communication and high frequency sound. It will also be responsible for 22 programs in the "World series on current events of interest to junior high school students.

The provincial radio broadcasts are scheduled over CKUA every school morning from 11:00 to 11:15 and follow a general pattern of social studies for elementary grades on Mondays, ele-mentary science on Tuesdays; junior high current events on Wednesdays, language on Thursdays and stories for Grades I to III on Fridays. Network radio programs over CBC stations across Canada are available to schools each afternoon from 2:03 to 2:30 p.m., October to May.

Television highlights selected from some 61 Alberta produced programs for the coming season include "Alberta at Work". Formerly on radio, this four program series visits lesser known industries in the province to show school children the operations of milk canning, honey processing, glove making, machine knitting, boat-building with fibre glass and the manufacture of plastics and glass.

"Elementary Mathematics", is a new ten-program television series prepared in conjunction with the new mathematics courses now going into effect for elementary grades.

To meet teacher requests for explain-how programs at the Grades I to III level, a new series "Community Helpers" will show children how such services as gas, telephones, electricity and water are brought to their homes.

Contributing to regional programs which viewed by schools in the four western province Alberta's Audio-Visual Branch will produce series of four 'Fine Arts' programs on art, dram music and dance to show how self-express from childhood can develop into polished perfection for the fermion of the fermion of the forms.

"Aerodynamics", explained at the Grade I level, in three programs, explores the theory flight.

The situation faced by the Plains India when the vast buffalo herds dwindled away, be portrayed in the "Last of the Beaver Mesusing artifacts from the Provincial Museum illustrate the ancient tribal ceremony of Beaver Bundle. Alberta will tell this stor? the four program series "Facts From Artifad with the other three western provinces combuting stories from their past.

The Alberta-produced television production will be seen Mondays and Fridays from 101 to 10:30 a.m., October to May, in addition contributions to western regional programs, even Wednesday throughout the school year. Tuesday and Thursdays, teachers can take advantage a wide variety of CBC telecasts dealing w topics from automation to urbanization.

Also available to teachers from Alberta Audio-Visual Branch are guide books with tailed information about 1966-67 programs suggestions for related activities. Teachers also request pupil booklets, for use with grams on music, art and science, as well as top of provincial programs broadcast by CKUA for the new 1966 Tape Catalogue sent to all school To use this last service, the school must supp the Branch with blank tapes for duplication the program requested.

Splendid Sport, Vacation Area Revealed by North Council Study

THE BEACHES are sandy, the water is crystal clear and the fishing is fine reports a sport test fishing survey recently conducted at Andrew Lake in northeastern Alberta by the Northern Alberta Development

The lake whose sport fishing possibilities were explored lies 500 min miles north east of Edmonton and is adjacent to the Northwest Terripries and Saskatchewan boundaries. It is 11 miles long, one half to two

and a hulf miles wide and runs deep.

A four-man survey party fished a 7½ mile stretch and found the belong could be classed as excellent. Lake trout weighing up to 4½ points were fished in the top 10 feet of water and were reported numerous. The skins were silvery with various coloured markings, and the flesh need from a pale colour to red. Also, numerous jackfish weighing up

10 pounds were caught just offshore.

The potential for a sport fishing lodge at Andrew Lake appears inviting, concludes the Council's report, since excellent locations on the many sandy beaches, water and sewage are no problem and the lake abounds in fish. However, the report points out that development of a sport fishing lodge would be expensive due to the legit cost of transportation into the isolated area.

The survey was prompted by the Council's interest in developing the sport fishing industry in northern Alberta. This area is already respore tisning industry in indicated. This area is already reand during the 1961-62 season, approximately 2.3 million pounds of Alberta lukes – Lac La Biche (33%), Whitefish Lake (22%), and lesser quantities in Winefred, Athabasca, Heart, Muriel, Cold, Pinehurst and



Fishing from shore or from the floats of the aircraft for mobility, sportsmen at some of the virtually untouched northern Alberta lakes have major success. Some of the catch is shown inset, ready for processing for dinner. It's the custom for many who have enjoyed fishing in these northern waters to use unbarbed hooks so the fish may be returned without

Bird Hunters Will Follow System Municipal Police Management Unit Game Control Subsidy Program

HUNFING REGULATIONS announced by the Fish and Wildlife Branch, Alberta Deof Lands and Forests, indicate that upand bird hunters will be following the Wildlife Management Unit system for the first time this year. The system was introduced last year to big game hunters and has proven a versatile method of managing wildlife resources. More extensive use of the system is being employed in the 1965 big game regulations, while waterfowl seasons are set on a standard north-south division. Antelope hunting regulations remain similar to the system introduced last year. Licenses are issued on a draw basis for seven designated hunting areas, with the open season being October 23 to 30 excluding Sunday, October 24.

For waterfowl hunters, the province has dividing line being Highway 16. A goose management area has again been established in the Sullivan Lake area (WMU's-G164 and G166) for protection of the Ross Goose. No white geese may be taken in this area until October 9. Hunting season started September 13 in the Northern cetion and September 24 in the South. Limits have been set at five ducks per day, with a possession limit of 10. Not more than three may be mallards (possession - 6) and not more than two may be redhead or canvasback (possession - 4). er October 15 the hunter's bag may contain two additional scaup (possession - 4).

Goose limits have been set at five daily, with a possession limit of 10. Not more than three (possession - 6) may be white fronted. Limit on coutts and rails has been set at five only with a possession limit of 10, while the he 100 yard limit on rivers and the half mile unit on certain lakes will be lifted from Novemper 1 to December 4.

Upland bird game limits are now listed by anagement units. Through this method, the in and Wildlife Branch expects larger, but etter controlled, bird harvests will result. Cerin areas opened September first, with others Pening October 1 and October 15.

Big game seasons vary considerably in different areas, but generally opened September 1 in the more inaccessible regions and September 14 in the more accessible mountain regions.

In establishing the management units, the province was divided into five major regions, each differing from the other in climate, soil, vegetation and type of game. Each region was further divided into Wildlife Management Units, 134 in all, numbered in series according to the region. Thirty units in the G-100 series are located in the dry grassland area of southeastern Alberta. Another 31 units (P-200 series) are located in the east central parkland region, 30 (F-300) in the western foothills, 23 (S-400) in the mountains, and 20 (M-500) are located in the mixed forest area of northern Alberta.

This arrangement provides more flexibility in management, enabling officials to treat game on a local population basis. Hunting areas for big game and upland birds are established by designating specific groups of management units in which hunters may operate. When a specific area is found unsuitable for hunting due to a depletion of the game population, it may be closed, while surrounding units with good populations of game are left open to hunters.

Waterfowl regulations are established by a joint federal-provincial conference, while upland bird and big game regulations are met by a provincial advisory council. Both govern their decisions on recommendations made by the Fish and Wildlife Division, which are based on biologists' reports of game conditions. The provincial advisory council is made up of representatives from the Alberta Federation of Agriculture, Stock Growers' Association, Alberta Fish and Game Association, Guides and Outfitters' Association, Trappers' Association and the Alberta Fish and Wildlife Division.

Schedule pamphlets (including maps) on big game and game bird seasons and limits are made available prior to the hunting season. Additional information may be obtained from the nearest Fish and Wildlife Office.

Is Interim Measure

MUNICIPALITIES of up to 1,500 population that maintain their own police forces are now eligible to receive a subsidy of \$3,600 per force per annum from the Provincial Govern-ment. This is an interim measure to be in effect until the R.C.M. Police is able to provide them with police services.

Under the terms of a new contract with the Province, the R.C.M. Police are responsible for police work in these communities, "as and when manpower becomes available." The Agreement was effective April 1, 1966. It is expected to take from a year to 16 months before the Agreement will be fully implemented.

In the meantime, municipalities will continue to provide their own police forces, supplemented with R.C.M. Police assistance. The program is being administered by the Corrections Branch of the Attorney General's Department.

Flowers In Design Foretell Centennial Garden Programs

TEW THIS YEAR, a floral replica of the provincial coat of arms grows in seven colors near the Legislative Buildings. Five varieties of low growing carpet bedding are used. Nine thousand individual transplants, set three inches apart, took two days to complete. The plants were grown last winter in Department of Public Works greenhouses. This 23 x 17 feet bed was planted in June to test techniques for next year, when it is planned that two beds for a Canadian Flag and a Centennial Maple Leaf might be set out beside the south stairs behind the Legislative Building.

Three Irrigation Studies Give Travellers Aide Basis for Formation of Policies

HE IRRIGATION Policy Committee of the Alberta Department of Agriculture has now met with all Irrigation District Boards and other organizations concerned, to advise them of the details of various irrigation studies being carried out by both federal and provincial agencies. These studies are designed to be the basis for the development of a new irrigation policy which would be more agreeable to both Irrigation Districts and government.

At the instigation of the Department of Agriculture, three studies are being carried out under the Agricultural Rehabilitation and Development Act. The field work is almost entirely completed and the results are now being compiled and evaluated.

The first study, under the administration of the P.F.R.A., employed engineers in the field to determine the physical features of irrigation projects, structures, drainage, present condition, the cost of improving present status and operating and maintenance costs. The second study, carried out by economists of the Farm Economics Division of the Federal Government, is to determine the primary costs and benefits of irrigation The third study, handled by a to the farmer. team from the University of Alberta, is investigating the secondary and tertiary benefits which stem from the increased use of resources and land and the marketing of additional agricultural commodities. Costs of personnel involved in these studies are shared by provincial and federal governments under A.R.D.A.

Two additional studies are being completed by branches of the Alberta Department of Agriculture. The Farm Economics Branch is studying the administrative structure of existing Irrigation Districts and, at the same time, is working with the Colonization Branch and the Water Resources Branch on a study of drainage, operation, maintenance and benefits of existing irrigation projects.

All studies are expected to be released by this spring, and the results will be brought be-

fore Irrigation District Boards and other interested groups by the Irrigation Policy Com-There, the findings will be discussed and evaluated by the organizations which will present their recommendations to the Committee. The Committee, in turn, will study all available facts and recommend to the Minister a policy which will be agreeable to both Irrigation Districts and to the government.

The Irrigation Policy Committee, which was formed in July of 1964, is made up of C. J. McAndrews, Manager of the Colonization Branch; Dr. G. R. Purnell, Director of the Farm Economics Branch; and R. E. Bailey, Chief Engineer, Water Resources Branch.

Youth Department Assumes Control Of Junior Wardens

TRANSFER HAS BEEN made of administra-tion of the Junior Forest Warden program from Lands and Forests to the new Alberta Department of Youth. Officer in charge of Junior Forest Wardens, served the program since its inception in 1961, will transfer to the new Department. Effective date of all transfers is October 1, 1966.

The primary objective of the training program, to impress young minds with the values inherent in the conservation of renewable resources, will remain unchanged by new steward-

The movement has grown from three clubs in 1960 (Hinton, Edson and Slave Lake) to thirty-three in 1966, comprising a total membership of over 700 youths. Club membership is limited to boys who have reached their tenth birthday or who have not exceeded an age of

By New Burea At Lloydminste

A NEW SUMMER Information Office been opened in Lloydminster by the All Government Travel Bureau. It is the third of kind in a long range program to put touris formation centers at each of the main high entrances to the province.

The new Lloydminster office is located the city museum on the Saskatchewan sid the border, and is operated co-operatively the Lloydminster Chamber of Commerce Chamber and the Information Center are managed by Mr. R. Wunder.

The other offices, which have been for several seasons, are at Flood, B.C. near H on the Trans-Canada Highway, and at St. M. Montana. It is expected that 70,000 inqui about roads, accommodation, points of in and places to visit while in Alberta will handled by the three offices this season,

Each office is staffed by three Alberta dents who know their province well. Some university students employed for the sum Others are retired, or semi-retired persons still enjoy meeting and helping the public. offices are open from the first of June until end of September.

"Within Our Borders" is a publication designal acquaint the people of the Province with the admistration of the Alberta Government.

There are no restrictions in the republishing any material but a credit line would be appreciate Notice of change of address should be ear panied by the mailing address on the front of a issue. No charge is made for "Within Our Bode and new readers are invited to forward their wand address to "Within Our Borders," Room 3 Highways Building, Edmonton.

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Coming Events

During the coming year Alberta will be the scene of many events of provincial, national and international interest. Within Our Borders is pleased to list these in its Coming Events column. Information should be forwarded to Within Our Borders, Room 245 Highways Building, Edmonton.

SEPTEMBER			
3-5	Merritt Stampede	Merritt	
3-5	Southeastern Golf Tournament		
3-5			
4	Totem Golf Tournament	Drayton Valley	
4	Coin-A-Rama	Medicine Hat	
4-5	Calgary Ultra Light Aircraft Association		
	Annual Fly-in		
5	Amateur Rodeo	Taber	
10-11	Calgary Retriever Club Fall Trial	Calgary	
11-14	Canadian Association of Painting and	,	
	Decorating Contractors	Edmonton	
15-18	Canadian Osteopathic Association	Lasner	
16-17	Alberta Association of Medical Record Librar	iane Edmonton	
17	18th Annual Alberta Provincial Truck Roder	Calcaru	
17-18	Canadian Chesapeake Club Fall Trial	Edmonton	
18-23	Canadian Press and the Canadian Daily		
	Newspaper Publishers Association	Lasner	
19-22	Canadian Council of the Blind Convention	Edmonton	
24-25	Flv-in to lasher	T	
24-25	Alberta Field I rial (Jub Fall Trial	Calmany	
25-30	Canadian Medical Association (Alberta Div	icion) I	
30-Oct	. 1 Lacombe Stampede	Jasper Jasper	
	The state of the s		

	OCTOBER	
1-2	Edmonton Sporting Dog Club — Fall Trial	Edmonton
2.6	Canadian Chamber of Commerce Convention	Edmonton
5-9	National Field Trail	Edmonton
7-9	Alcoholics Anonymous Convention	Edmonton
8	6th Canadian Field Regiment Association Annual Reunion	Calgary
13	Jubilee Day — S.A.I.T.	Calgary
14-16	Camrose Lutheran College Home — Coming	Camrose
17-18	National Conference on Centennial	Edmonton
17-19	Canadian Restaurant Association — "Hospitality Show"	Calgary
27-28	Alberta Teachers' Association — 1st Edmonton District	Edmonton
28-29	Bench Show of the Hanna District Agricultural Society	Hanne

31-Nov. 4 Annual Fall Livestock Show